

FIG. 1A

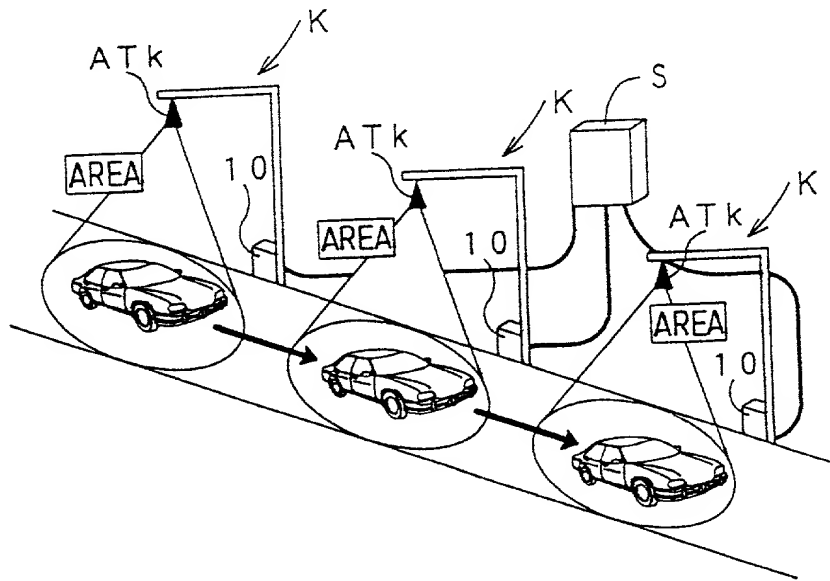


FIG. 1B

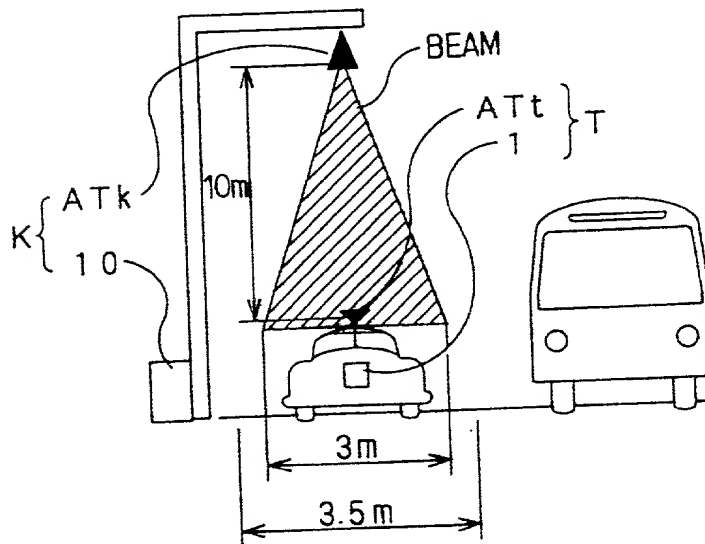


FIG. 2A

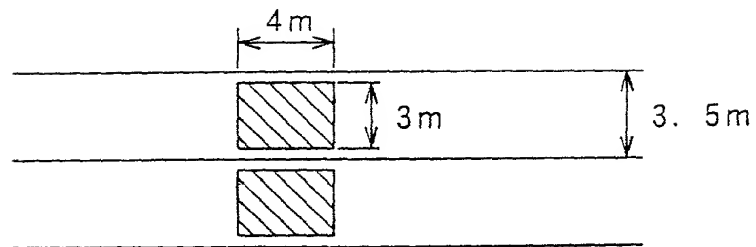


FIG. 2B

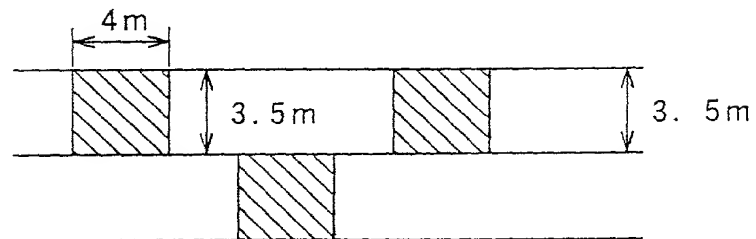


FIG. 2C

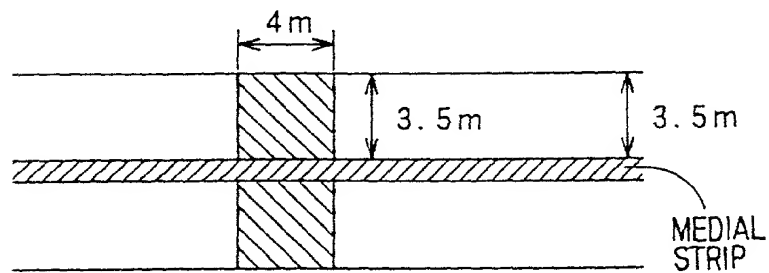


FIG. 3A

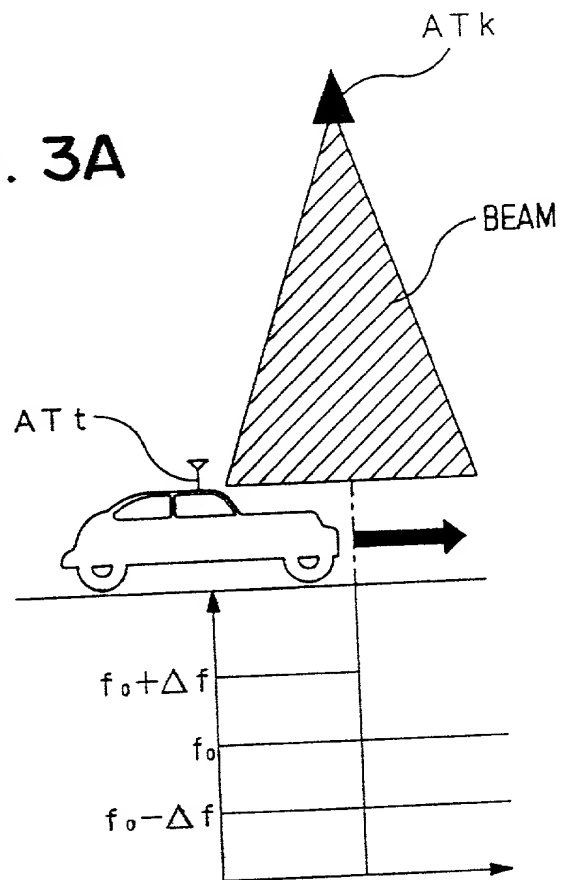


FIG. 3B

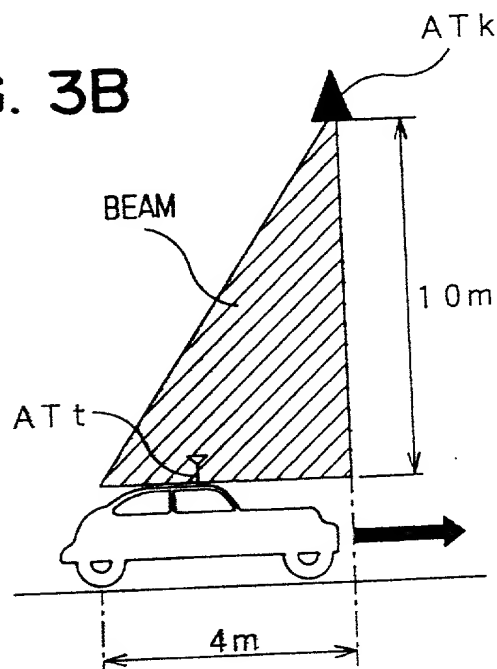


FIG. 4A

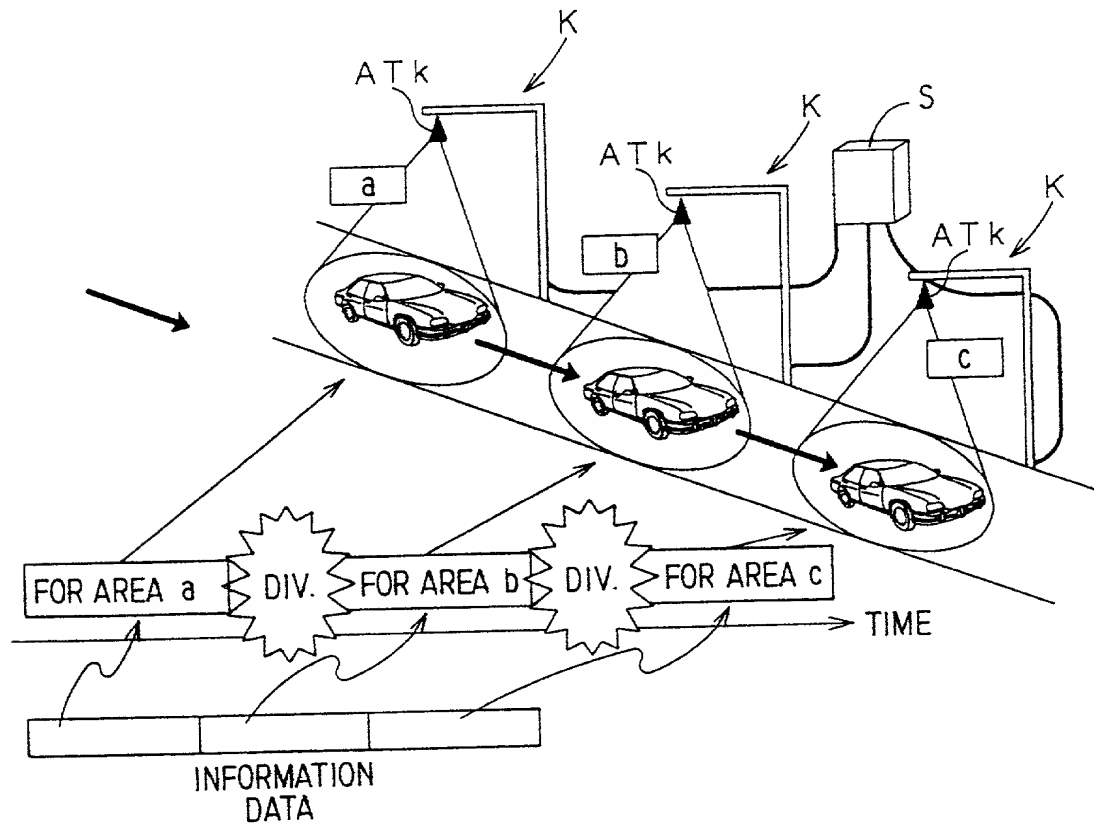


FIG. 4B

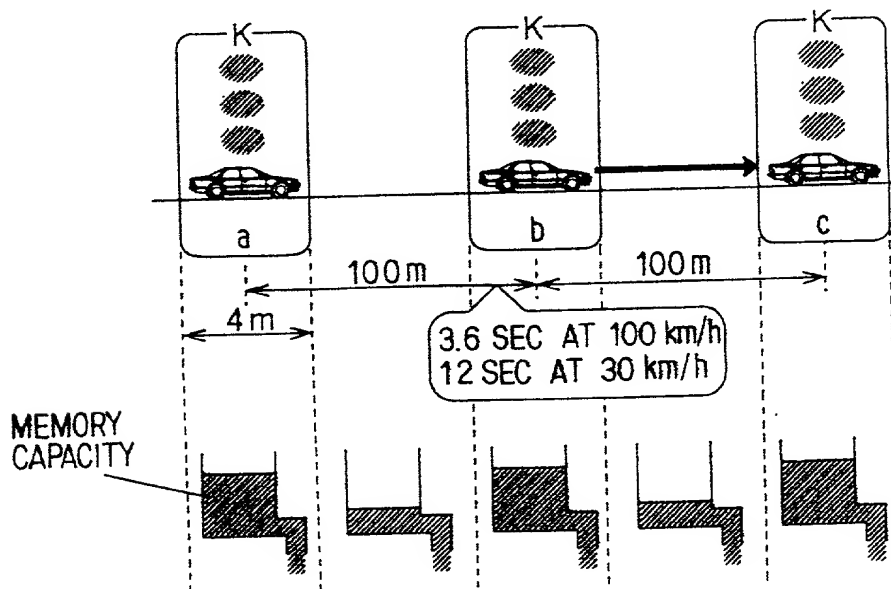


FIG. 5

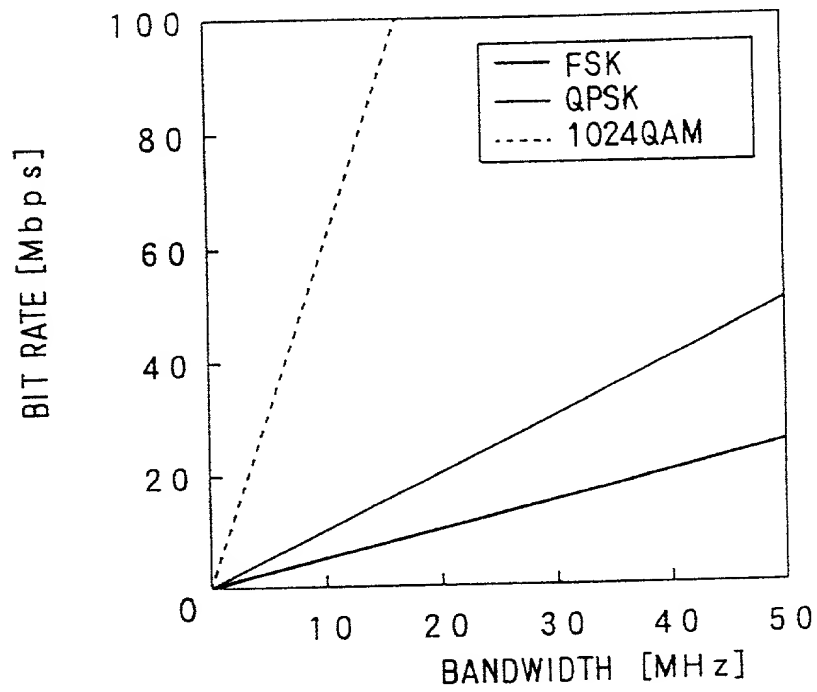


FIG. 6A

MODULATION	AVERAGE BER
F S K	$P_{FSK} = \text{erfc} \left(\frac{K_o}{\sqrt{2}} \right)$
B P S K	$P_{BPSK} = \frac{1}{2} \text{erfc} \left(\frac{K_o}{\sqrt{2}} \right)$
Q P S K	$P_{QPSK} = \frac{1}{2} \text{erfc} \left(\frac{K_o}{\sqrt{2}} \right)$
1 6 Q A M	$P_{16QAM} = \frac{3}{8} \text{erfc} \left(\frac{K_o}{\sqrt{10}} \right)$
6 4 Q A M	$P_{64QAM} = \frac{7}{24} \text{erfc} \left(\frac{K_o}{\sqrt{42}} \right)$
2 5 6 Q A M	$P_{256QAM} = \frac{15}{64} \text{erfc} \left(\frac{K_o}{\sqrt{170}} \right)$

FIG. 6B

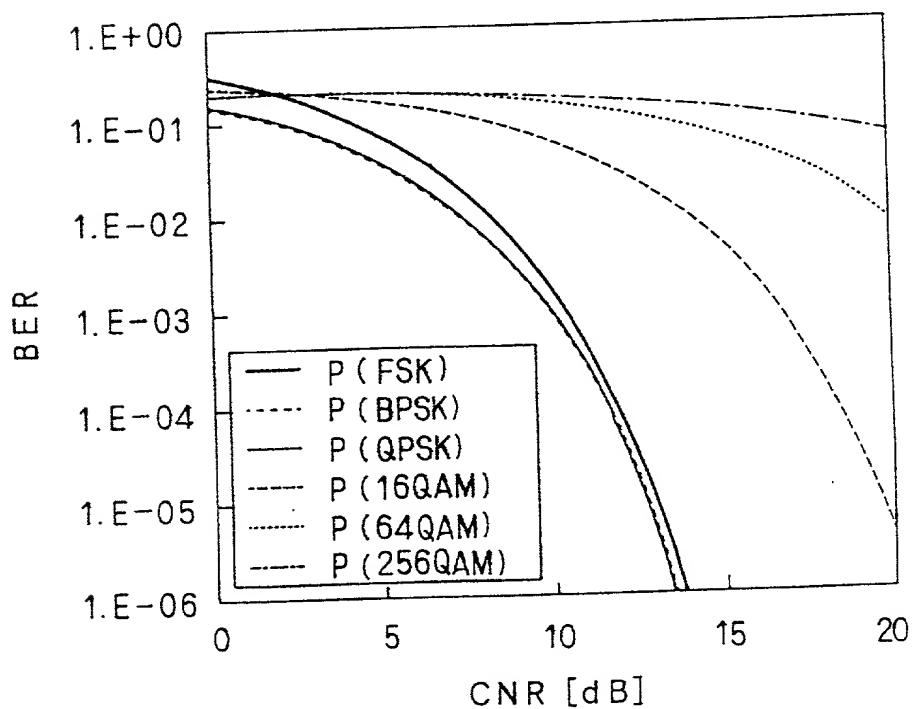


FIG. 7A

PARAMETER	VALUE	
	SPOT	CONTINUOUS
POWER	10 dBm	
ANTENNA GAIN	20 dB	3 dB
DISTANCE	10 m	
FREQUENCY	37 GHz	
MODULATION	FSK, BPSK, QPSK	
AVERAGE BER	1×10^{-6}	
RECEIVER NOISE	10 dB	
TEMPERATURE	300 K	
BANDWIDTH	1-200 MHz	

FIG. 7B

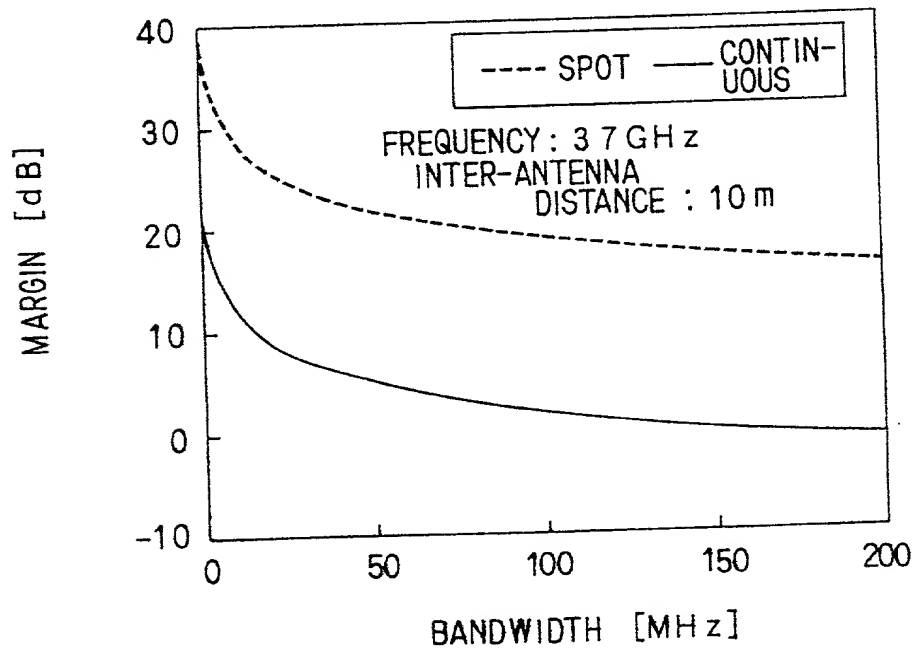


FIG. 8A

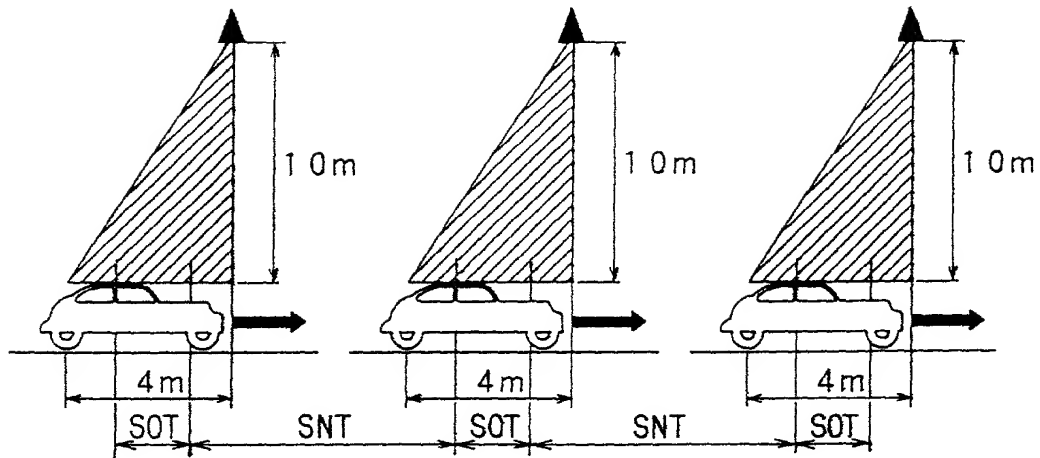


FIG. 8B

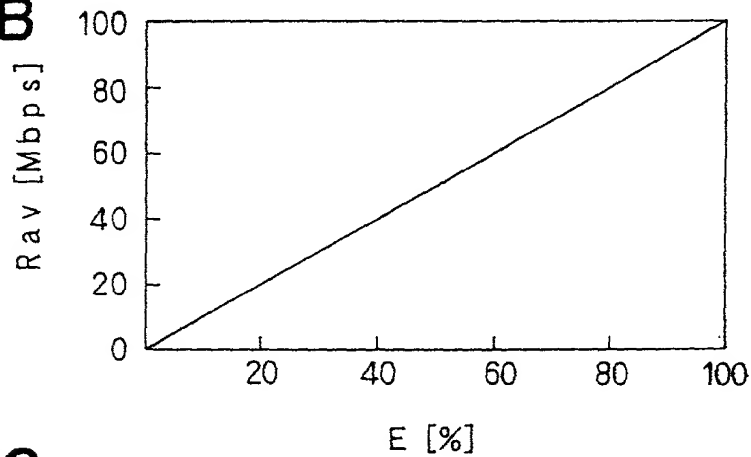


FIG. 8C

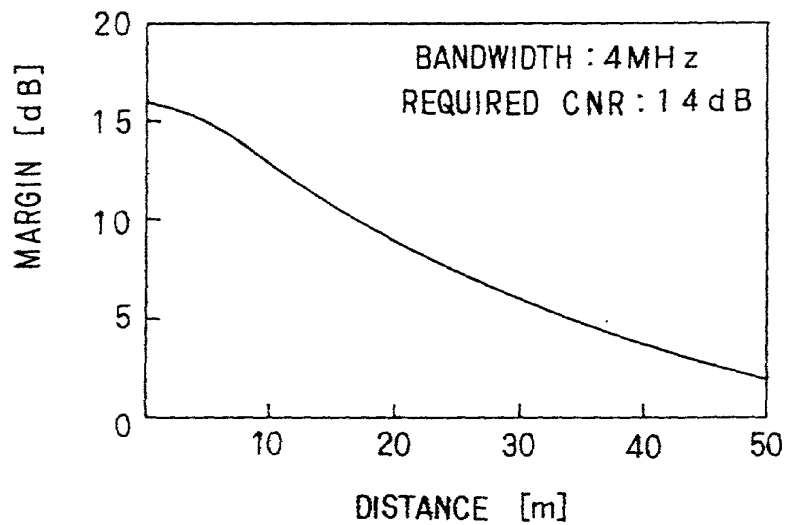


FIG. 9

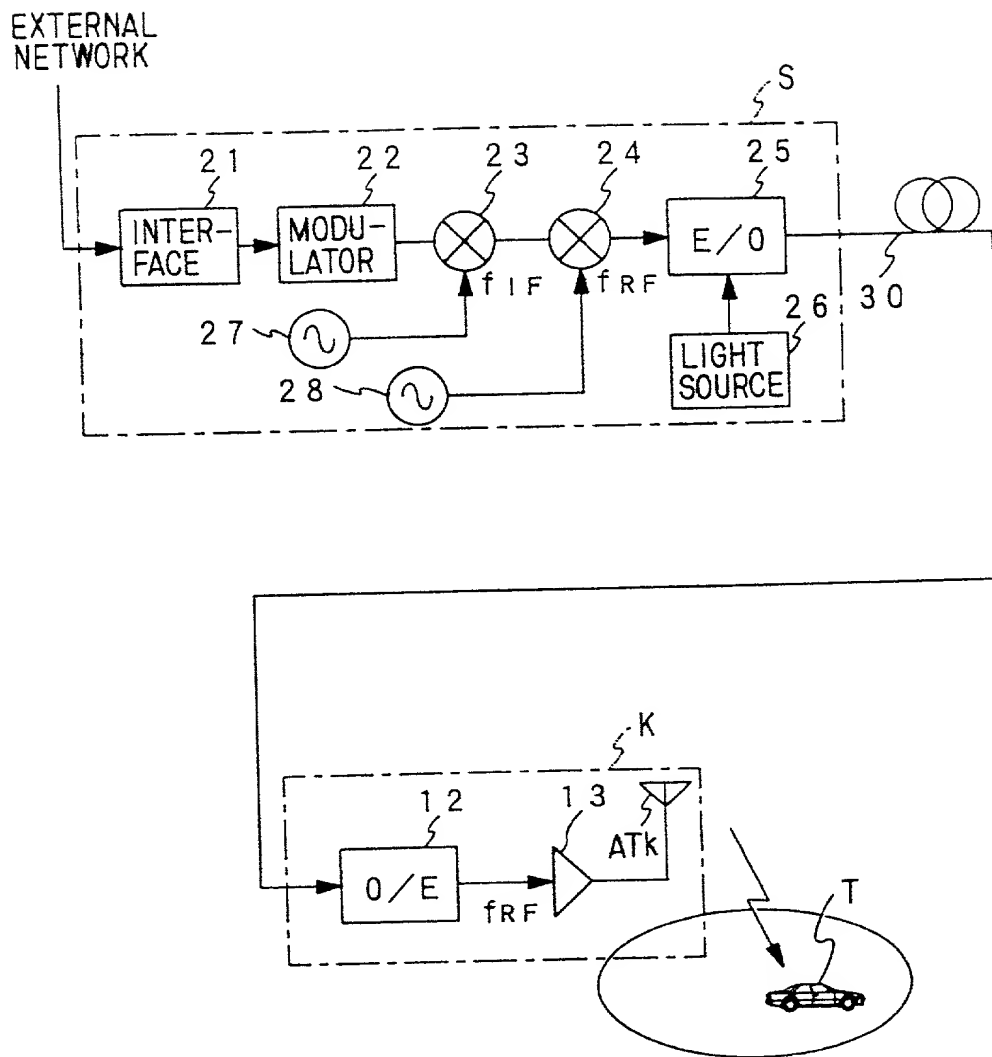


FIG. 10A

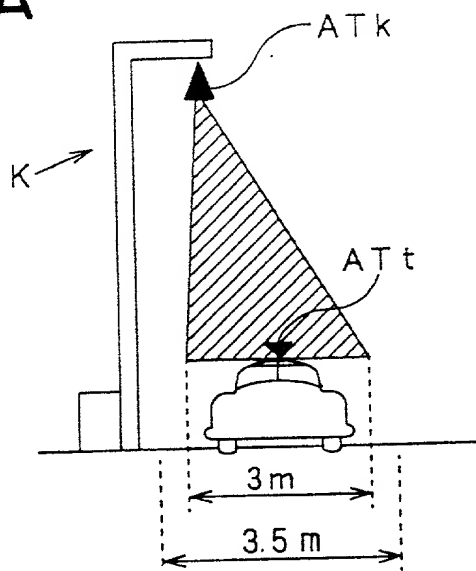


FIG. 10B

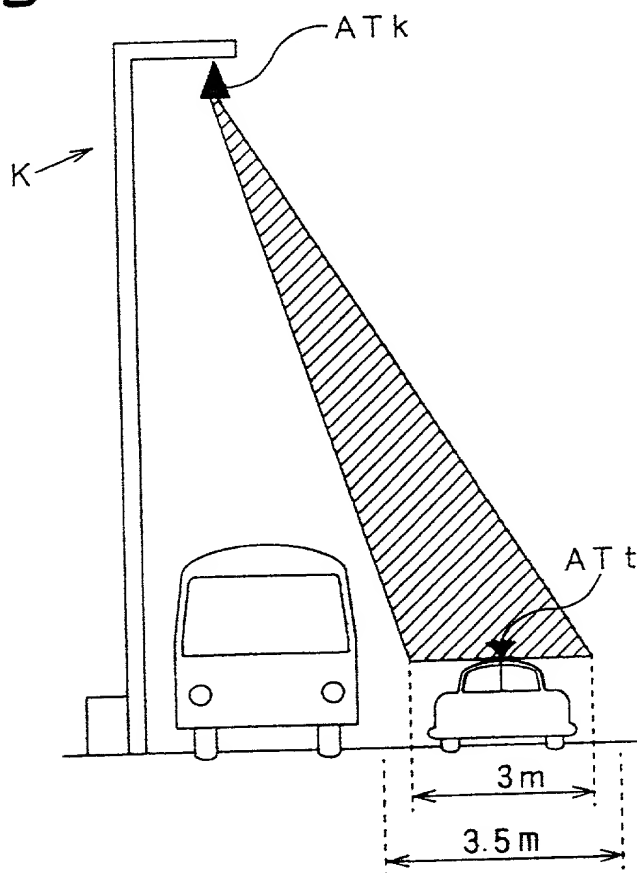


FIG. 11A

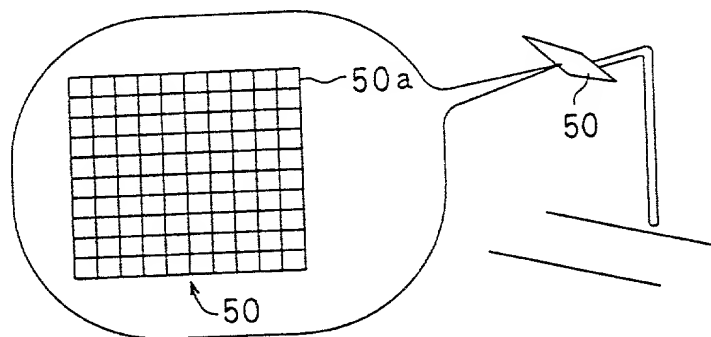


FIG. 11B

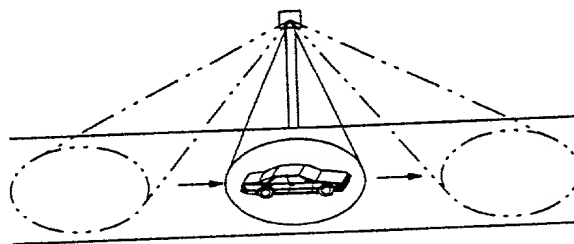


FIG. 11C

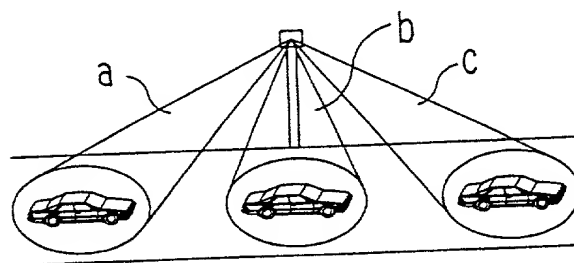


FIG. 11D

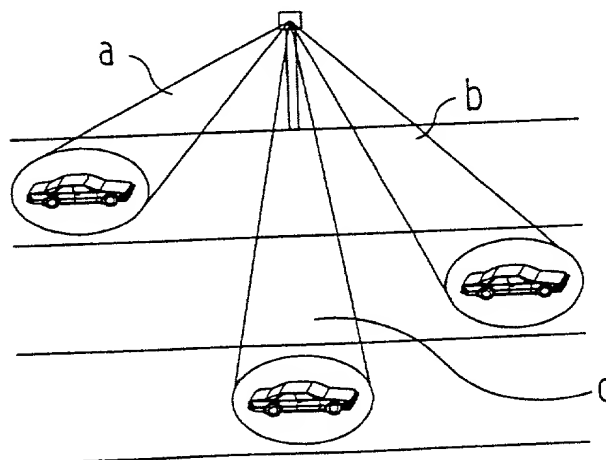


FIG. 12A

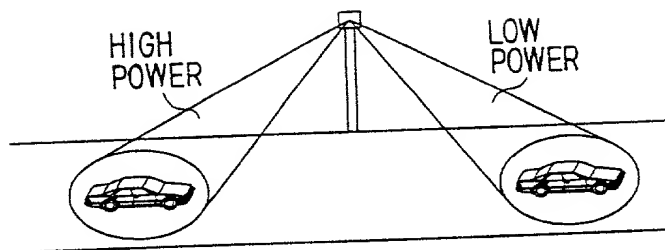


FIG. 12B

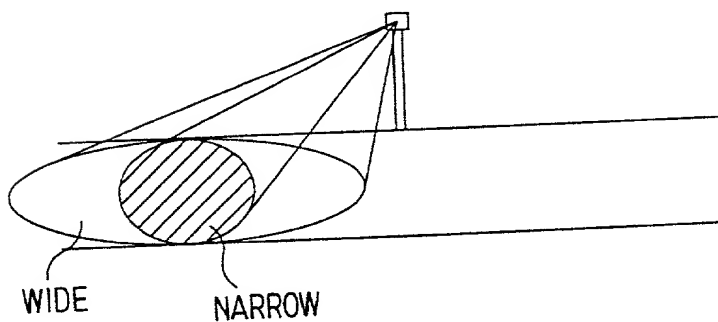


FIG. 12C

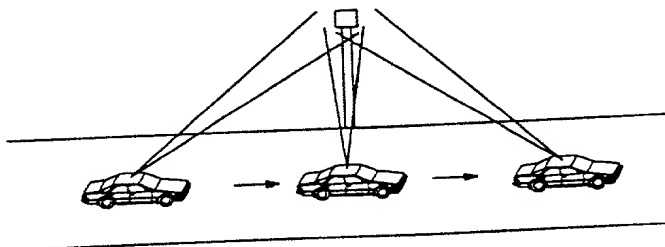


FIG. 13A

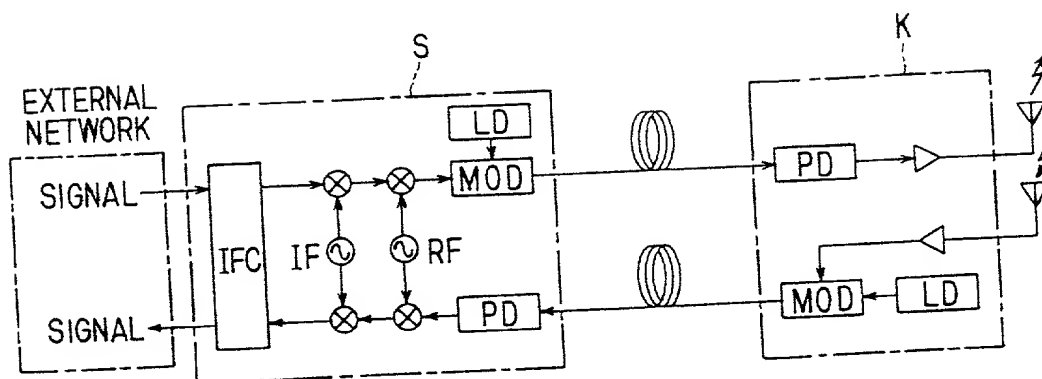


FIG. 13B

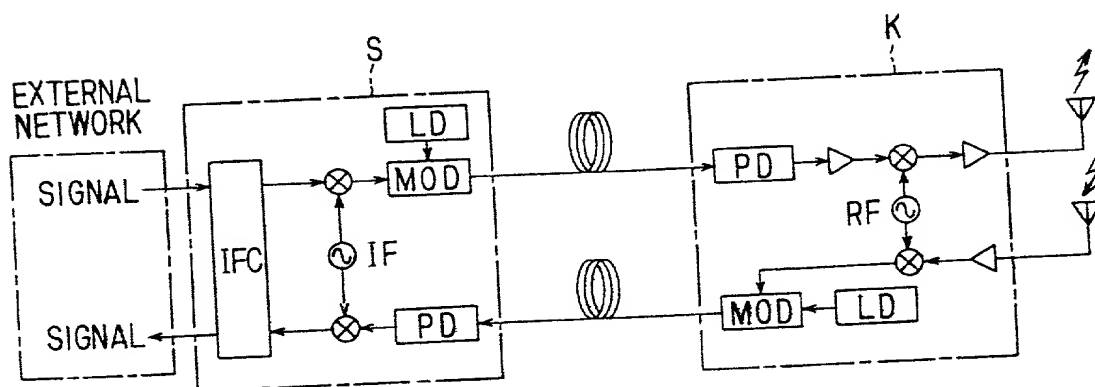


FIG. 14A

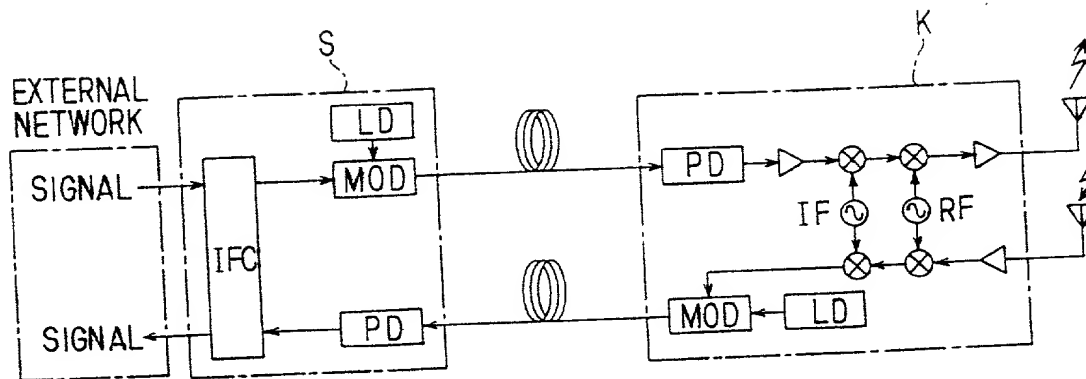


FIG. 14B

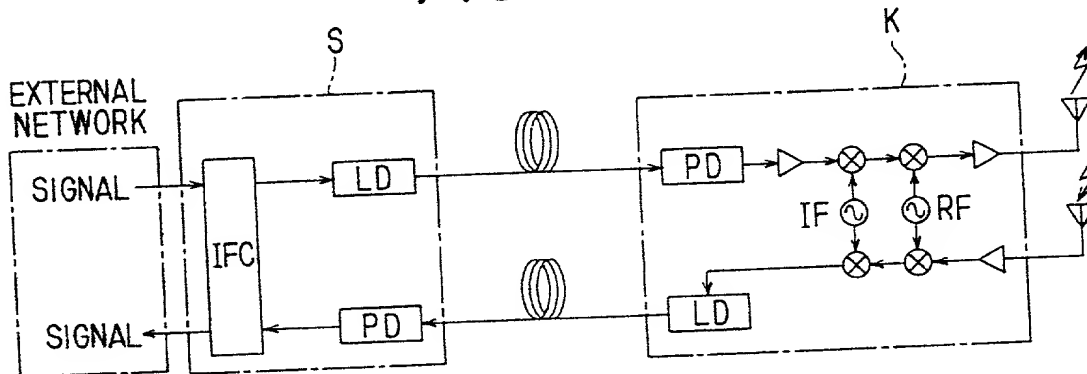


FIG. 14C

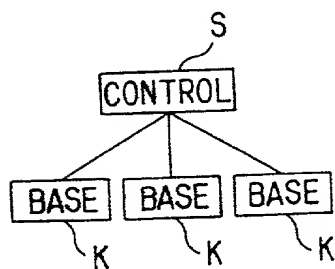


FIG. 14D

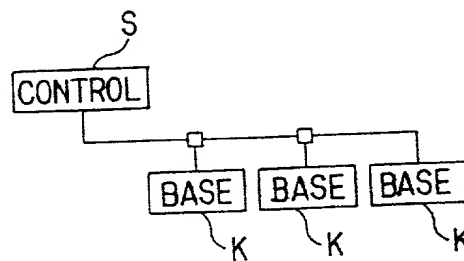


FIG. 15A RELATED ART

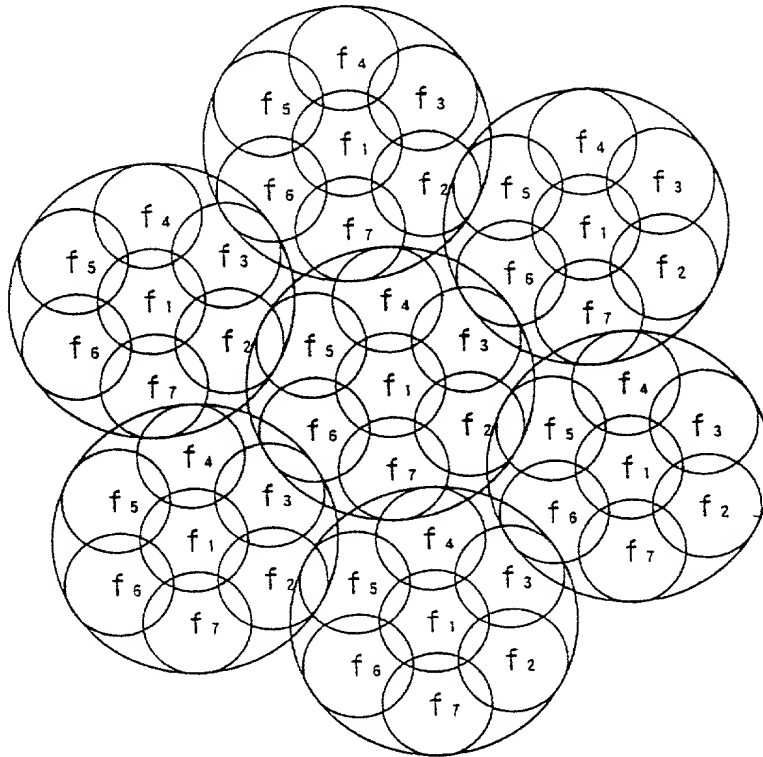


FIG. 15B RELATED ART

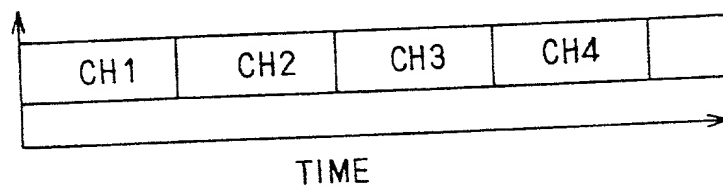


FIG. 15C RELATED ART

